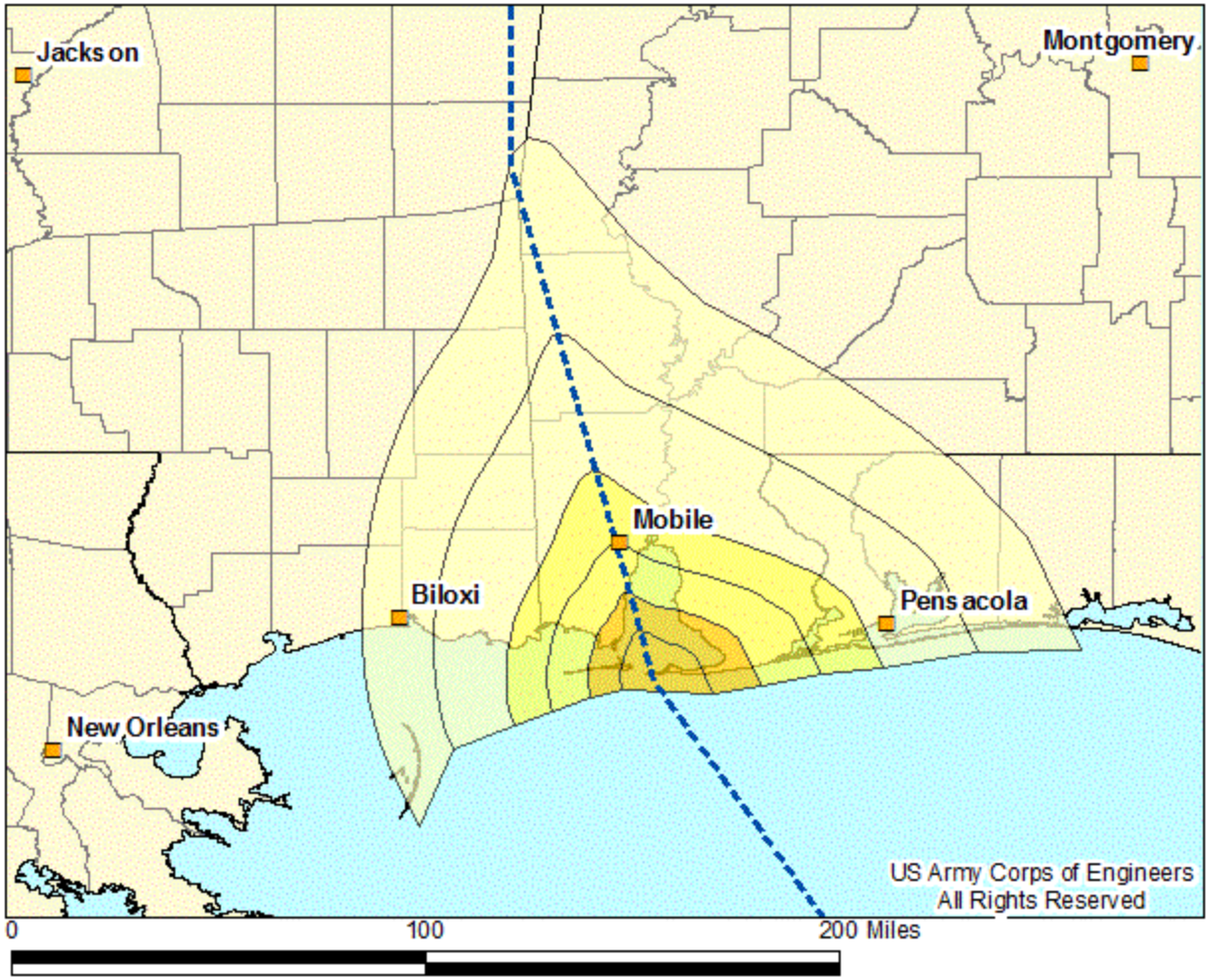
US Army Corps of Engineers

Hurricane Isaac Projected Damage Areas

Landfall Expected In About 66 Hours

For Planning Purposes Only!



Post Landfall Projected Damage Areas

This model is based on a Category 2 storm making landfall near Mobile, AL.

Forecast Track

Projected Damage Areas

- CAT 0-type damage
- CAT 1-type damage
- CAT 2-type damage
- CAT 3-type damage
- CAT 4-type damage
- CAT 5-type damage

Information provided on this page displays a projected or actual Category 2 storm making landfall near Mobile, AL. These projections are based on information from the NHC (0800 EDT 08/26/2012) forecast and extrapolated by LRL staff to represent a landfall condition that has either occurred or may occur in the near future.

Details about this model may be obtained at http://www.englink.usace.army.mil or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

Hurricane Isaac Projected Damage Areas

Generated By:
Siemsen, LRL 0900 EDT 08/26/2012

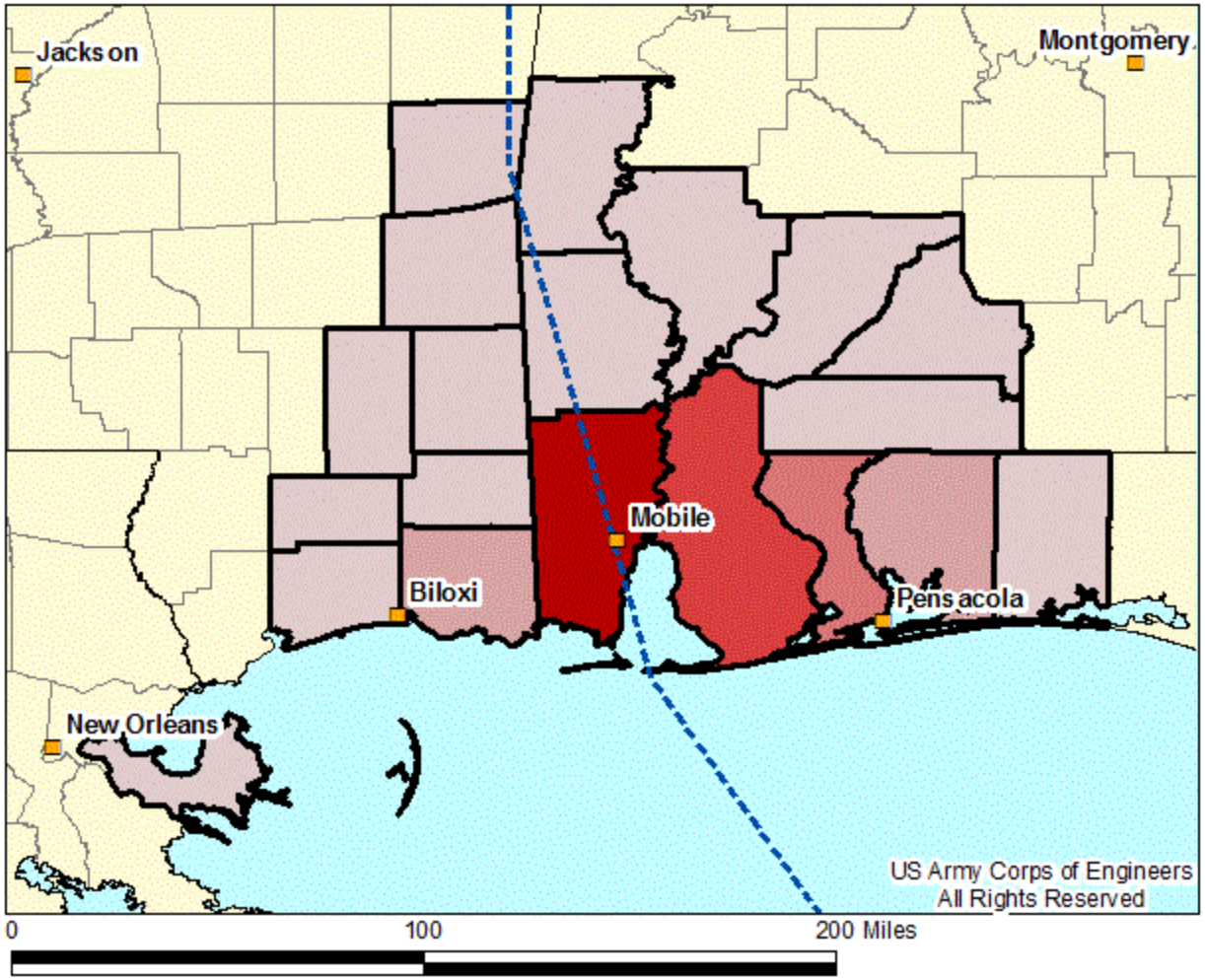
Sources:
HURREVAC
LRL-DEBRIS

US Army Corps of Engineers

Hurricane Isaac Debris Model

Landfall Expected In About 66 Hours

For Planning Purposes Only!



Post Landfall Debris Model Results

Alabama - 2,155,000 Yards
Florida - 703,000 Yards
Mississippi - 283,000 Yards

Model results per County on following page

This model is based on a Category 2 storm making landfall near Mobile, AL.

Forecast Track

Debris

- < 100,000 cubic yards
- 100,000 - 249,999 cubic yards
- 250,000 - 499,999 cubic yards
- 500,000 - 999,999 cubic yards
- >1,000,000 cubic yards

Information provided on this page displays a Category 2 storm making landfall near Mobile, AL. These projections are based on information from the NHC (0800 EDT 08/26/2012) forecast. The amount of debris forecasted is possible total volume, not necessarily the volume that may need to be removed with Federal funds, but does not include volume that may be covered by private insurance. Debris volume may include storm surge generated debris.

Details about this model may be obtained at http://www.englink.usace.army.mil
or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

Hurricane Isaac Debris Model

Generated By:
Siemsen, LRL 0900 EDT 08/26/2012

Sources:
HURREVAC
LRL-DEBRIS

US Army Corps of Engineers

Hurricane Isaac Debris Model

Landfall Expected In About 66 Hours

For Planning Purposes Only!

State	Yards per State	County	Yards per County
Alabama		Baldwin County	740,000
		Choctaw County	6,000
		Clarke County	8,000
		Conecuh County	< 1,000
		Escambia County	18,000
		Mobile County	1,356,000
		Monroe County	2,000
		Washington County	25,000
Alabama	2,155,000		
Florida		Escambia County	440,000
		Okaloosa County	59,000
		Santa Rosa County	204,000
Florida	703,000		
Louisiana		St. Bernard Parish	< 1,000
Louisiana			
Mississippi		Clarke County	< 1,000
		George County	24,000
		Greene County	16,000
		Harrison County	52,000
		Jackson County	184,000
		Perry County	< 1,000
		Stone County	3,000
		Wayne County	4,000
Mississippi	283,000		

The amount of debris forecasted is possible total volume, not necessarily the volume that may need to be removed with Federal funds, but does not include volume that may be covered by private insurance. Debris volume may include storm surge generated debris.

Details about this model may be obtained at http://www.englink.usace.army.mil or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

Source: US Army Corps of Engineers, All Rights Reserved

Hurricane Isaac Debris Model

Generated By:
Siemsen, LRL 0900 EDT 08/26/2012

Sources:
HURREVAC
LRL-DEBRIS

US Army Corps of Engineers

Hurricane Isaac Commodities Model

Landfall Expected In About 66 Hours

For Planning Purposes Only!

Post Landfall Water Model Results

Day One / Day Two / Day Three

Alabama – 10/20/38 Truckloads

Florida – 2/4/6 Truckloads

Mississippi – 1/1/1 Truckloads

Model results per County on following page

This model is based on a Category 2 storm making landfall near Mobile, AL.

Forecast Track

Commodities

- < 5 Trucks Each
- 5 - 10 Trucks Each
- 11 - 20 Trucks Each
- 21 - 40 Trucks Each
- > 40 Trucks Each

Information provided on this page displays a Category 2 storm making landfall near Mobile, AL. These projections are based on information from the NHC ***(0800 EDT 08/26/2012)*** forecast. The amount of commodities forecasted is based on Mission Guide Book requirements and SME input. The graphic represents daily needs with a ramp-up in the distribution system – three days for Points of Distribution (PODs) to be fully in place and operational. Volume shown is for each commodity – water and ice. Commodity need may be supplied by multiple agencies and/or sources.

Details about this model may be obtained at http://www.englink.usace.army.mil or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

Hurricane Isaac Commodities Model	
Generated By: Siemsen, LRL 0900 EDT 08/26/2012	
Sources: HURREVAC LRL-DEBRIS	Page 4 of 16

US Army Corps of Engineers

Hurricane Isaac Commodities Model

Landfall Expected In About 66 Hours

For Planning Purposes Only!

State	Truckloads per State	County	Truckloads per County
Alabama		Baldwin County	11
		Mobile County	27
Alabama	38		
Florida		Escambia County	6
Florida	6		
Mississippi		Jackson County	1
Mississippi	1		

Source: US Army Corps of Engineers, All Rights Reserved

The amount of commodities forecasted is based on Mission Guide Book requirements and SME input and the above table indicates suggested daily needs based on full deployment of a commodities distribution system. Volume shown is for each commodity – water and ice. Commodity need may be supplied by multiple agencies and/or sources.

Details about this model may be obtained at http://www.englink.usace.army.mil or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

Hurricane Isaac Commodities Model

Generated By:
Siemsen, LRL 0900 EDT 08/26/2012

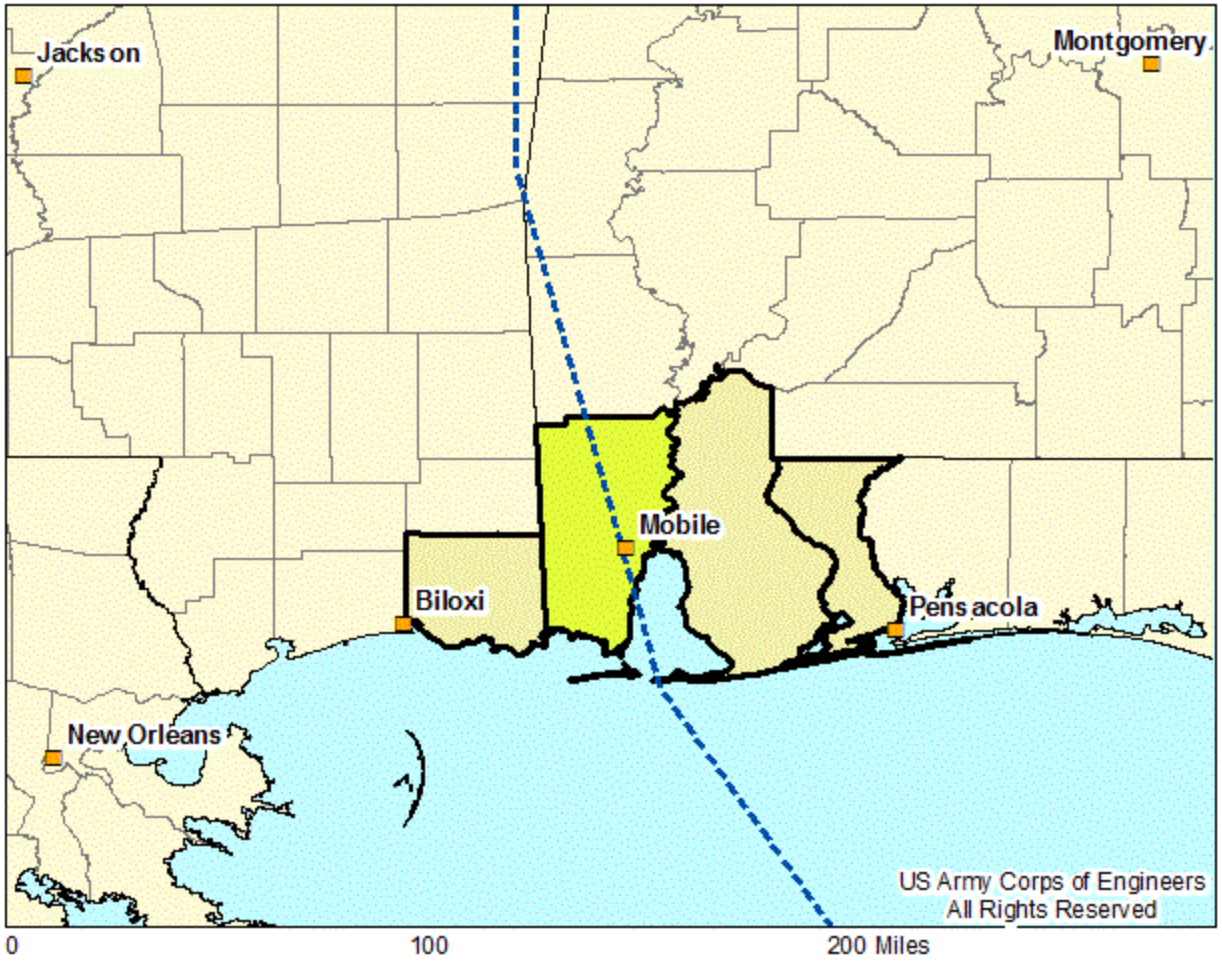
Sources:
HURREVAC
LRL-DEBRIS

US Army Corps of Engineers

Hurricane Isaac Temporary Roofing Model

Landfall Expected In About 66 Hours

For Planning Purposes Only!



Post Landfall Temporary Roofing Model Results

Alabama - 3,200
Florida - 500

Model results per County on following page

This model is based on a Category 2 storm making landfall near Mobile, AL.

Forecast Track

Temporary Roofing

- < 2,000 units
- 2,000 - 3,999 units
- 4,000 - 5,999 units
- 6,000 - 9,999 units
- > 10,000 units

Information provided on this page displays a Category 2 storm making landfall near Mobile, AL. These projections are based on information from the NHC (0800 EDT 08/26/2012) forecast. Temporary roofing is based on 2% in CAT 1 and 5% in CAT 2.

Details about this model may be obtained at http://www.englink.usace.army.mil or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

Hurricane Isaac Roofing Model

Generated By:
Siemsen, LRL 0900 EDT 08/26/2012

Sources:
HURREVAC
LRL-DEBRIS

US Army Corps of Engineers

Hurricane Isaac Temporary Roofing Model

Landfall Expected In About 66 Hours

For Planning Purposes Only!

State	House Units per State	County	House Units per County
Alabama		Baldwin County	1,000
		Mobile County	2,200
Alabama	3,200		
Florida		Escambia County	500
Florida	500		
Mississippi		Jackson County	< 100
Mississippi			

Temporary roofing is based on 2% in CAT 1 and 5% in CAT 2.

Details about this model may be obtained at http://www.englink.usace.army.mil or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

Source: US Army Corps of Engineers, All Rights Reserved

Hurricane Isaac Roofing Model

Generated By:
Siemsen, LRL 0900 EDT 08/26/2012

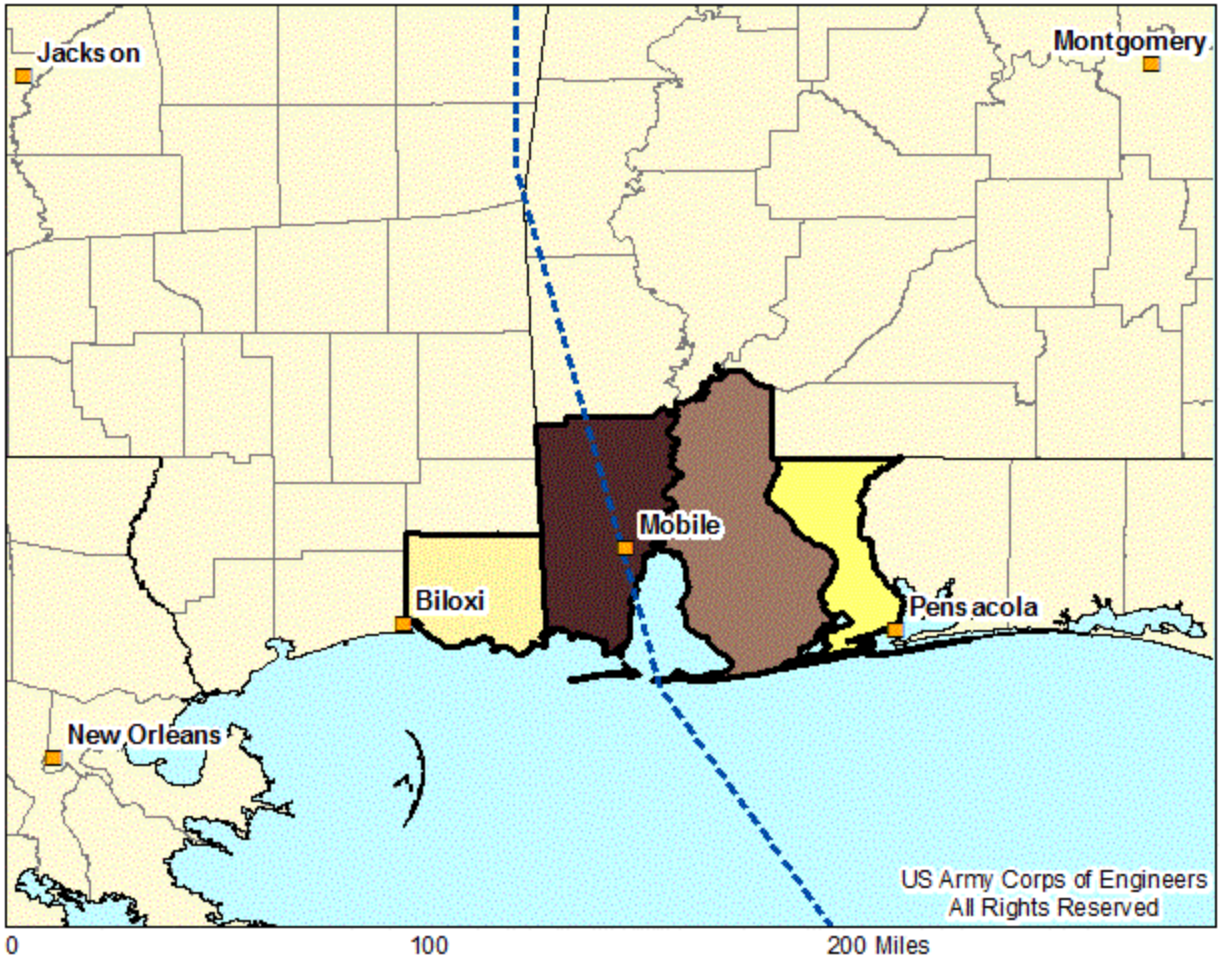
Sources:
HURREVAC
LRL-DEBRIS

US Army Corps of Engineers

Hurricane Isaac Population Model

Landfall Expected In About 66 Hours

For Planning Purposes Only!



Post Landfall Population Model Results

Alabama - 529,000
Florida - 84,000
Mississippi - 4,000

Model results per County on following page

This model is based on a Category 2 storm making landfall near Mobile, AL.

Forecast Track

Population

- < 25,000 persons
- 25,000 - 99,999 persons
- 100,000 - 174,999 persons
- 175,000 - 249,999 persons
- > 250,000 persons

Information provided on this page displays a Category 2 storm making landfall near Mobile, AL. These projections are based on information from the NHC (0800 EDT 08/26/2012) forecast. The numbers of persons included in this model output are those that would be included within estimated hurricane force winds (Census 2010 values adjusted to July 2011 values).

Details about this model may be obtained at http://www.englink.usace.army.mil or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

Hurricane Isaac Population Model	
Generated By: Siemsen, LRL 0900 EDT 08/26/2012	
Sources: HURREVAC LRL-DEBRIS	

US Army Corps of Engineers

Hurricane Isaac Population Model

Landfall Expected In About 66 Hours

For Planning Purposes Only!

State	Population per State	County	Population per County
Alabama		Baldwin County	152,000
		Mobile County	377,000
Alabama	529,000		
Florida		Escambia County	84,000
Florida	84,000		
Mississippi		Jackson County	4,000
Mississippi	4,000		

The number of persons estimated to be within the hurricane force winds comes from Census 2010 values adjusted to July 2011 values.

Details about this model may be obtained at http://www.englink.usace.army.mil
or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

Source: US Army Corps of Engineers, All Rights Reserved

Hurricane Isaac Population Model

Generated By:
Siemsen, LRL 0900 EDT 08/26/2012

Sources:
HURREVAC
LRL-DEBRIS

US Army Corps of Engineers

Hurricane Isaac Households Model

Landfall Expected In About 66 Hours

For Planning Purposes Only!

Post Landfall Households Model Results

Alabama - 204,000
Florida - 29,000
Mississippi - 2,000

Model results per County on following page

This model is based on a Category 2 storm making landfall near Mobile, AL.

Forecast Track

Households

- < 7,500 households
- 7,500 - 14,999 households
- 15,000 - 24,999 households
- 25,000 - 49,999 households
- > 50000 households

Information provided on this page displays a Category 2 storm making landfall near Mobile, AL. These projections are based on information from the NHC (0800 EDT 08/26/2012) forecast. The numbers of households included in this model output are those that would be included within estimated hurricane force winds (Census 2010 values adjusted to July 2011 values).

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Hurricane Isaac Households Model	
Generated By: Siemsen, LRL 0900 EDT 08/26/2012	
Sources: HURREVAC LRL-DEBRIS	

US Army Corps of Engineers

Hurricane Isaac Households Model

Landfall Expected In About 66 Hours

For Planning Purposes Only!

State	Households per State	County	Households per County
Alabama		Baldwin County	61,000
		Mobile County	143,000
Alabama	204,000		
Florida		Escambia County	29,000
Florida	29,000		
Mississippi		Jackson County	2,000
Mississippi	2,000		

The number of households estimated to be within the hurricane force winds comes from Census 2010 values adjusted to July 2011 values.

Details about this model may be obtained at http://www.englink.usace.army.mil
or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

Source: US Army Corps of Engineers, All Rights Reserved

Hurricane Isaac Households Model

Generated By:
Siemsen, LRL 0900 EDT 08/26/2012

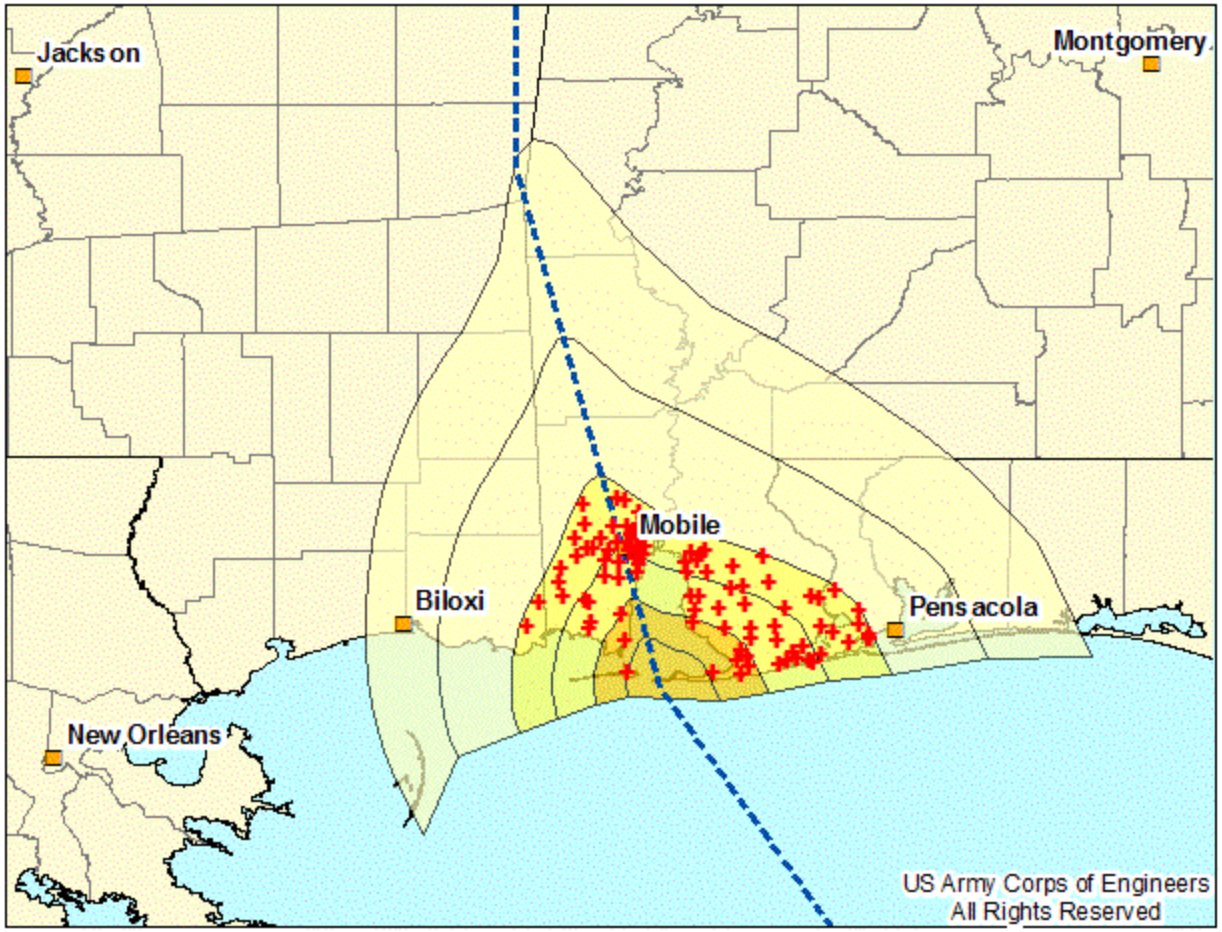
Sources:
HURREVAC
LRL-DEBRIS

US Army Corps of Engineers

Hurricane Isaac Fire Stations

Landfall Expected In About 66 Hours

For Planning Purposes Only!



Most Probable Landfall Fire Stations Inside Hurricane Force Winds

Alabama - 82
Florida - 13
Mississippi - 2

Model results per County on following page

This model is based on a Category 2 storm making landfall near Mobile, AL.

+ Fire Stations
Forecast Track

Information provided on this page displays a Category 2 storm making landfall near Mobile, AL. These projections are based on information from the NHC (0800 EDT 08/26/2012) forecast.

The number of fire stations included in this output are those that would be included within estimated hurricane force winds (data source: HSIP Gold 2012).

Details about this model may be obtained at http://www.englink.usace.army.mil or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

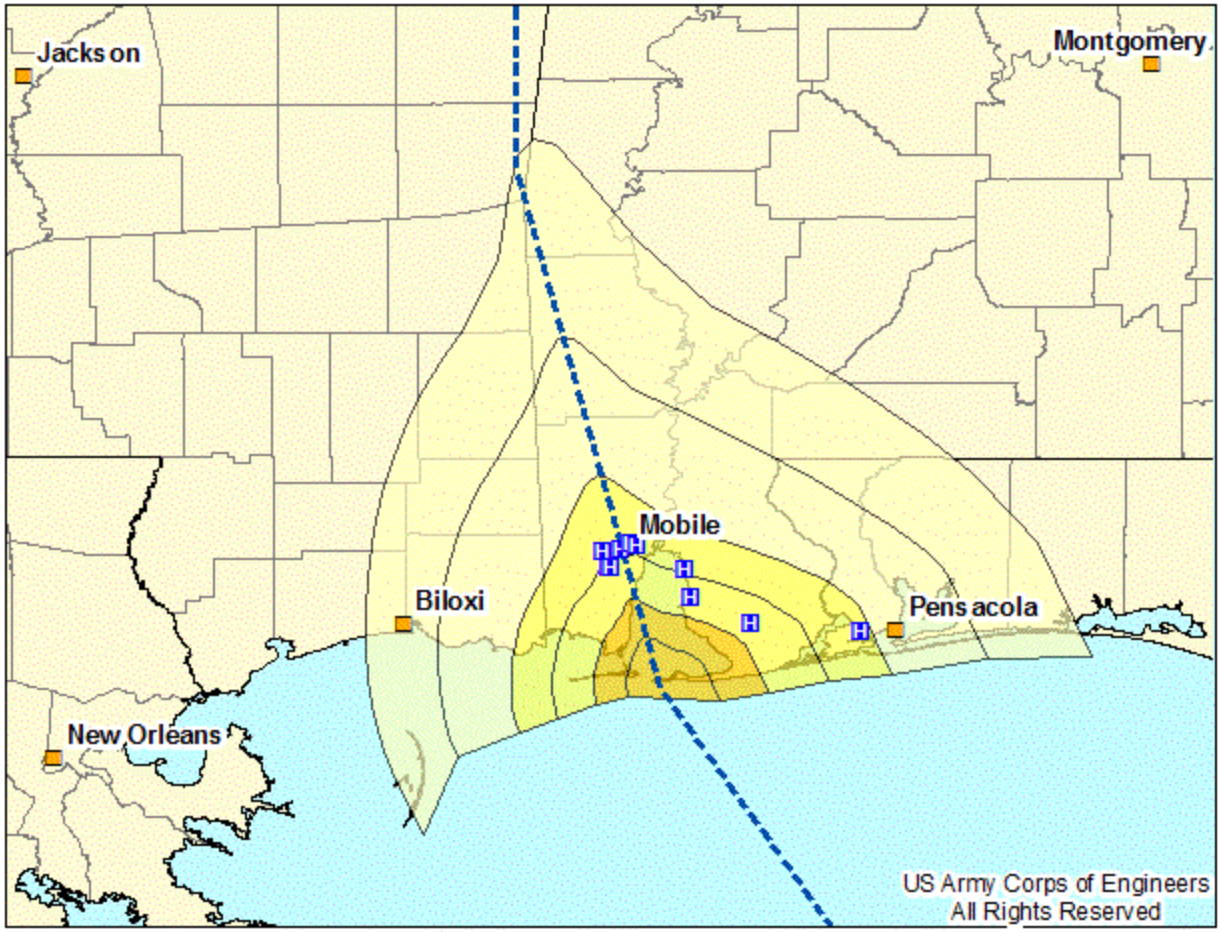
Hurricane Isaac Fire Stations	
Generated By: Siemsen, LRL 0900 EDT 08/26/2012	
Sources: HURREVAC LRL-DEBRIS	

US Army Corps of Engineers

Hurricane Isaac Hospitals

Landfall Expected In About 66 Hours

For Planning Purposes Only!



Most Probable Landfall Hospitals Inside Hurricane Force Winds

Alabama - 11
Florida - 1

Model results per County on following page

This model is based on a Category 2 storm making landfall near Mobile, AL.

H Hospitals
Forecast Track

Information provided on this page displays a Category 2 storm making landfall near Mobile, AL. These projections are based on information from the NHC (0800 EDT 08/26/2012) forecast.
The number of hospitals included in this output are those that would be included within estimated hurricane force winds (data source: HSIP Gold 2012).

Details about this model may be obtained at http://www.englink.usace.army.mil
or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

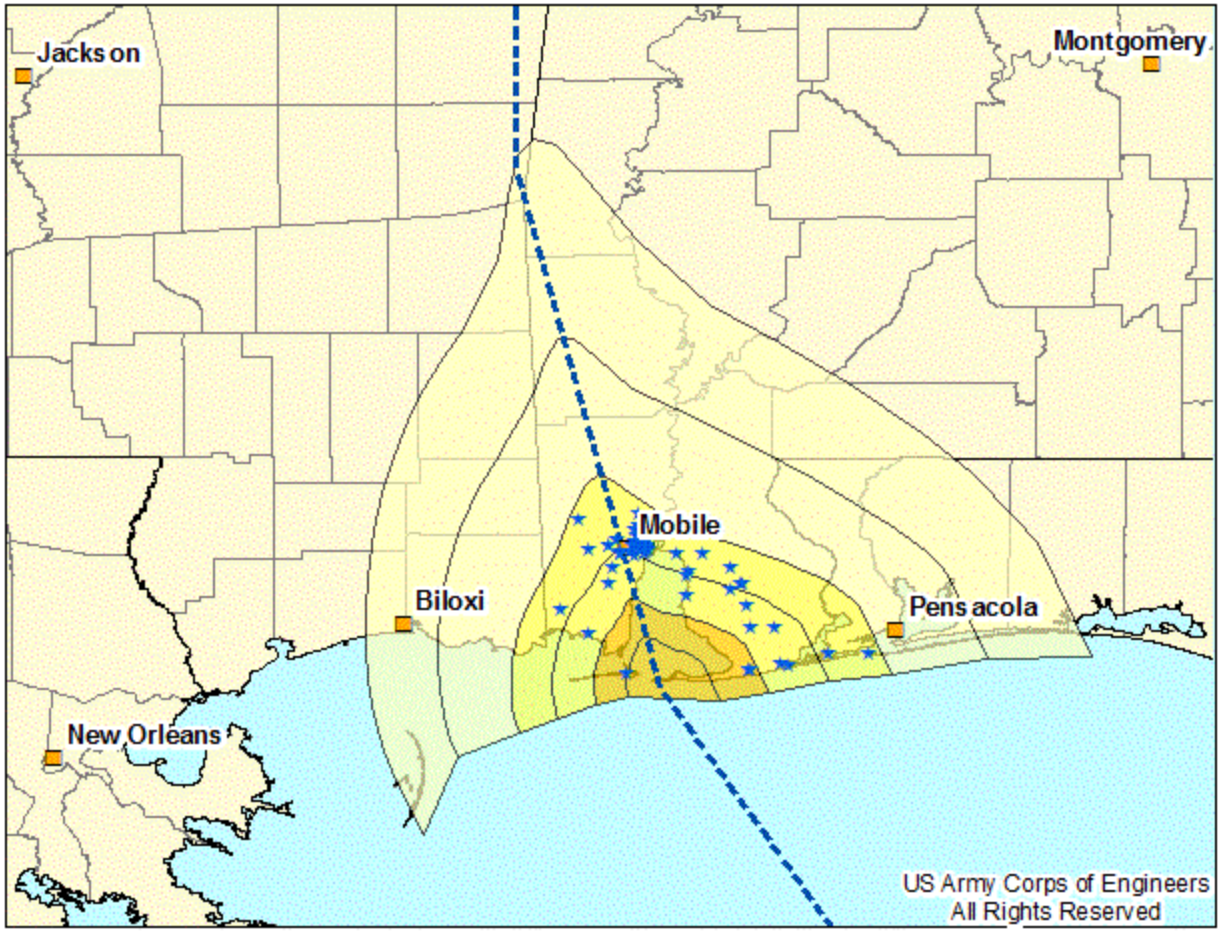
Hurricane Isaac Hospitals	
Generated By: Siemsen, LRL 0900 EDT 08/26/2012	
Sources: HURREVAC LRL-DEBRIS	Page 13 of 16

US Army Corps of Engineers

Hurricane Isaac Law Enforcement

Landfall Expected In About 66 Hours

For Planning Purposes Only!



Most Probable Landfall Law Enforcement Inside Hurricane Force Winds

Alabama - 56
Florida - 2

Model results per County on following page

This model is based on a Category 2 storm making landfall near Mobile, AL.

★ Law Enforcement
Forecast Track

Information provided on this page displays a Category 2 storm making landfall near Mobile, AL. These projections are based on information from the NHC (0800 EDT 08/26/2012) forecast.

The number of law enforcement included in this output are those that would be included within estimated hurricane force winds (data source: HSIP Gold 2012).

Details about this model may be obtained at http://www.englink.usace.army.mil
or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

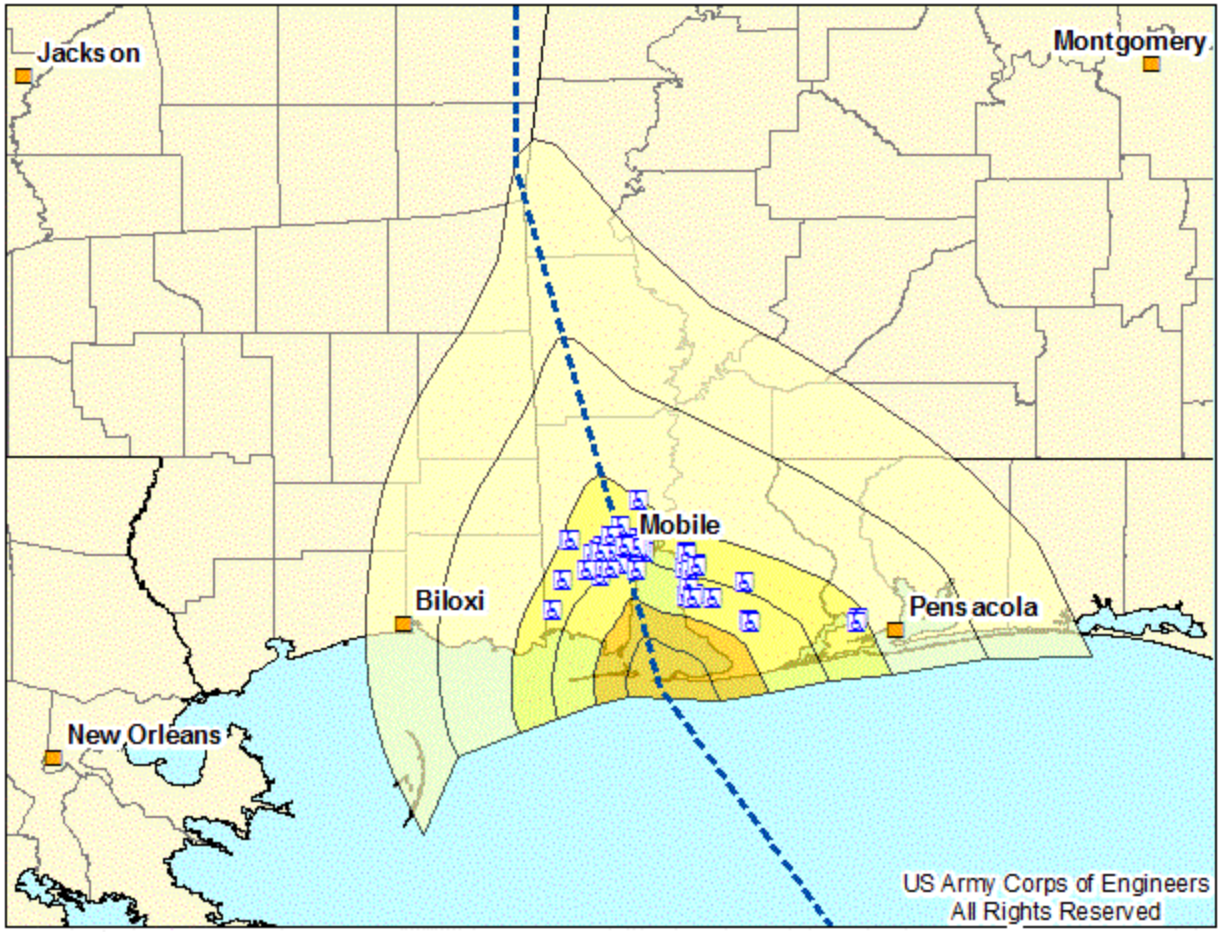
Hurricane Isaac Law Enforcement	
Generated By: Siemsen, LRL 0900 EDT 08/26/2012	
Sources: HURREVAC LRL-DEBRIS	

US Army Corps of Engineers

Hurricane Isaac Nursing Homes

Landfall Expected In About 66 Hours

For Planning Purposes Only!



Most Probable Landfall Nursing Homes Inside Hurricane Force Winds

Alabama - 55
Florida - 2

Model results per County on following page

This model is based on a Category 2 storm making landfall near Mobile, AL.

Nursing Homes
Forecast Track

Information provided on this page displays a Category 2 storm making landfall near Mobile, AL. These projections are based on information from the NHC (0800 EDT 08/26/2012) forecast.

The number of nursing homes included in this output are those that would be included within estimated hurricane force winds (data source: HSIP Gold 2012).

Details about this model may be obtained at http://www.englink.usace.army.mil
or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

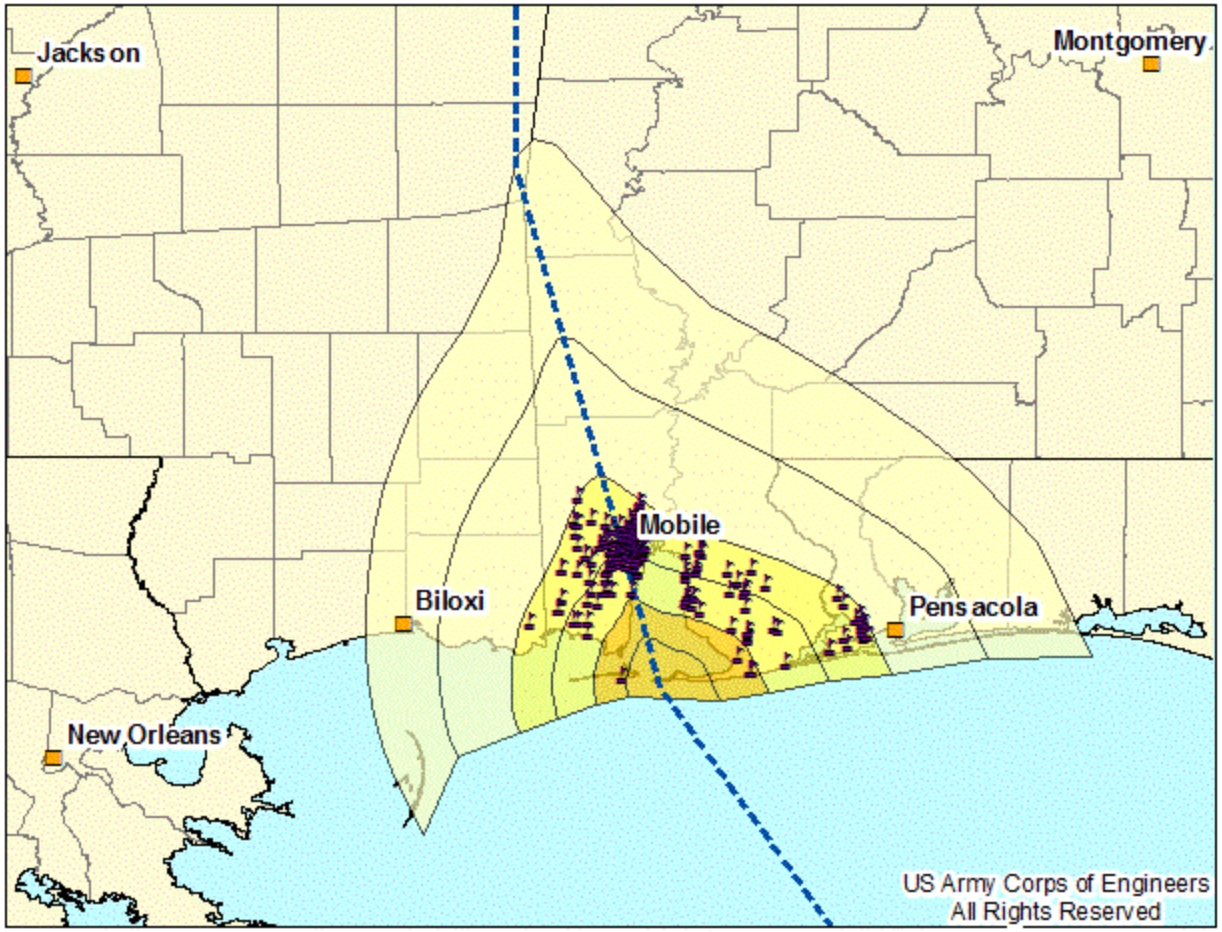
Hurricane Isaac Nursing Homes	
Generated By: Siemsen, LRL 0900 EDT 08/26/2012	
Sources: HURREVAC LRL-DEBRIS	

US Army Corps of Engineers

Hurricane Isaac Schools

Landfall Expected In About 66 Hours

For Planning Purposes Only!



Most Probable Landfall Schools Inside Hurricane Force Winds

Alabama - 149
Florida - 16
Mississippi - 1

Model results per County on following page

This model is based on a Category 2 storm making landfall near Mobile, AL.

Schools
Forecast Track

Information provided on this page displays a Category 2 storm making landfall near Mobile, AL. These projections are based on information from the NHC (0800 EDT 08/26/2012) forecast.

The number of schools included in this output are those that would be included within estimated hurricane force winds (data source: HSIP Gold 2012).

Details about this model may be obtained at http://www.englink.usace.army.mil or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

Hurricane Isaac Schools	
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Sources: HURREVAC LRL-DEBRIS	Page 16 of 16